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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,900	06/13/2006	Arnaud Bailleul	4590-532	5003
13308 7590 04/02/2010 LOWE HAUPTMAN HAM & BERNER, LLP 1700 DIAGONAL ROAD, SUITE 300			EXAMINER	
			DAO, THUY CHAN	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2192	
			MAIL DATE	DELIVERY MODE
			04/02/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/582,900	BAILLEUL, ARNAUD	
Office Action Summary	Examiner	Art Unit	
	Thuy Dao	2192	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) ■ Responsive to communication(s) filed on <u>06 Jac</u> 2a) ■ This action is FINAL . 2b) ■ This action for alloware closed in accordance with the practice under <u>Backets</u> .	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 1 and 3-10 is/are pending in the appliance of the above claim(s) is/are withdrays 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 3-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or application Papers	wn from consideration.		
9) The specification is objected to by the Examine	ar.		
10) ☐ The drawing(s) filed on <u>09 December 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Explanation	are: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Burea * See the attached detailed Office action for a list	es have been received. es have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicant's submission filed on January 6, 2010 has been entered.

2. Claims 1 and 3-10 have been examined.

Response to Amendments

- 3. Claim 2 has been canceled.
- 4. The objection to the specification and claim 1 is withdrawn in view of Applicant's amendments.

Claim Objections

5. Claims 1 and 8 are objected to because of minor informalities.

Claim 1:

In line 1, acronym "UML" should be spelled out in full at the first occurrence in claims.

Line 4, the phrase is considered to read as - -using a [[contraint]] constraint adding function...- -.

Claim 8:

Claim 8 seems to be identical with claim 5. Both claims 5 and 8 depend on the same claim 1 and one of them should be canceled.

Appropriate correction is requested.

Response to Arguments

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6. Applicants' arguments have been fully considered. Examiner notes that Applicants' amendments necessitated the new ground(s) of rejection presented in this Office action as set forth in details below.

Claim Rejections - 35 USC §102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 8. Claims 1, 3, 4, and 7 are rejected under 35 U.S.C. 102(a) as being anticipated by Rhapsody-4.1 (art of record, "Essential Rhapsody in C++" version 4.1, published January 1, 2003).

Claim 1:

Rhapsody-4.1 discloses a method of requirements traceability based on a UML model, comprising the steps of:

using a graphics interface (e.g., page E1-8, Rhapsody Object Model Diagram as a graphics interface, using the Browser in left panel, which shows every element such as package, class, use case,... in a UML model)

when creating an element of the UML model (e.g., page E1-9, creating a class/element "Display"; wherein "Display" has a creation "Hello"),

using a constraint adding function of a modeling tool (pages E1-11 and E1-12, using tab "Implementation" after right-clicking "Features" and adding the requirement/constraint "Hello World" must be displayed as the result of the executable - see page E1-19)

for attaching a requirement immediately on a common element (e.g., page E1-12, Features of "Constructor: Display" as a common element)

that contains a set of elements (page E1-12, Features has elements General, Implementation, Relations, Tags, and Properties), and

on which the requirement has repercussions (page E1-21, cout << "Hello World" << end; now has repercussions on the Rhapsody graphics interface)

in this graphics interface (pages E1-8 to E1-12, E1-21, all figures/windows/dialogs/tabs in Rhapsody interface); and

wherein the element is systematically filled in with an upward requirement which has given rise to a creation of the element (e.g., page E1-18, generating code, i.e., creation of said class/element "Display" and said class/element "Display" is generated/inserted/filled in with the implementation requirement/constraint (outputting "Hello World"); page E1-19, outputting "Hello World" as the added/attached requirement/constraint).

Claim 3:

Rhapsody-4.1 discloses the method as claimed in claim 1, comprising the steps of: when an element of the model is deleted, all the UML requirements attached to this element are likewise deleted (e.g., page E1-9, deleting class "Display" from the entire model).

Claim 4:

Rhapsody-4.1 discloses the method as claimed in claim 3, wherein all the UML requirements attached to all the elements attached to said element are likewise deleted (e.g., page E1-10, when class "Display" is deleted, its constructor is also deleted with all attached requirements).

Claim 7:

Rhapsody discloses the method as claimed in claim 1, wherein when an element of the model is deleted, all the UML requirements attached to this element are likewise deleted (e.g., page E1-9, a class is deleted from the entire model; page E1-11, "Delete from Model").

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Claim Rejections – 35 USC §103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as

set forth in section 102 of this title, if the differences between the subject matter sought to be

patented and the prior art are such that the subject matter as a whole would have been obvious

at the time the invention was made to a person having ordinary skill in the art to which said

subject matter pertains. Patentability shall not be negatived by the manner in which the invention

was made.

10. Claims 5, 6, and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Rhapsody-4.1 in view of Kobryn (art of record, "Visual Requirements-Driven

Development with UML 2.0").

Claim 5:

Rhapsody-4.1 does not explicitly disclose the method as claimed in claim 1,

comprising the steps of: the UML requirements are exported to a requirements

management tool so as to ensure therein their management and their traceability.

However, in an analogous art, Kobryn further discloses the UML requirements

are exported to a requirements management tool so as to ensure therein their

management and their traceability (e.g., page 26, 29, and 31).

It would have been obvious to a person having ordinary skill in the art at the time

the invention was made to combine Kobryn's teaching into Rhapsody-4.1's teaching.

One would have been motivated to do so to "navigate to DOORS" as suggested by

Rhapsody-4.1 (e.g., page E1-11) and automate validation and verification as suggested

by Kobryn (e.g., page 26, 29, and 31).

Claim 6:

Rhapsody-4.1 discloses the method as claimed in claim 5, comprising the steps

of: the UML requirements are exported to the requirements management tool, in the

course of the development of the model, each time that this model has attained a stable state.

However, in an analogous art, Kobryn further discloses the UML requirements are exported to the requirements management tool, in the course of the development of the model, each time that this model has attained a stable state (e.g., page 26, 29, and 31).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine Kobryn's teaching into Rhapsody-4.1's teaching. One would have been motivated to do so to "navigate to DOORS" as suggested by Rhapsody-4.1 (e.g., page E1-11) and iterate testing/validation/verification upon the granularity of the requirements as suggested by Kobryn (e.g., page 26-27, 29, and 31).

Claims 8-10:

Claims 8-10 depend on claims 1 and 3-4, which recite(s) the same limitations as those of claim 5, wherein all claimed limitations have been addressed and/or set forth above. Therefore, as the reference teaches all of the limitations of the above claim(s), it also teaches all of the limitations of claims 8-10.

Conclusion

11. Any inquiry concerning this communication should be directed to examiner Thuy (Twee) Dao, whose telephone/fax numbers are (571) 272 8570 and (571) 273 8570, respectively. The examiner can normally be reached on every Tuesday, Thursday, and Friday from 6:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam, can be reached at (571) 272 3695.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is (571) 272 2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

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applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Twee Dao/

Examiner, Art Unit 2192